

IMPLANTABLE PROSTHETIC VALVE

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<http://web.nerac.com/access/WPRNDN1A?NDN=26303869328&C=04471800><http://web.nerac.com/access/WPRNDN1A?NDN=26303869328&C=04471800>**INVENTOR(S)**- SPENSER, Benjamin; BENICHU, Netanel; BASH, Assaf; ZAKAI, Avraham**DATE FILED**- 2002-10-11**PUBLICATION NUMBER**- 2003047468/WO-A1**DOCUMENT TYPE**- A1**PUBLICATION DATE**- 2003-06-12

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A valve prosthesis device (20) is disclosed suitable for implantation in body ducts. The device comprises a support stent (22), comprised of a deployable construction adapted to be initially crimped in a narrow configuration suitable for catheterization through the body duct to a target location and adapted to be deployed by exerting substantially radial forces from within by means of a deployment device (48) to a deployed state in the target location, and a valve assembly (28) comprising a flexible conduit having an inlet end (24) and an outlet (26), made of pliant material (29) attached to the support beams (23) providing collapsible slack portions of the conduit at the outlet. The support stent is provided with a plurality of longitudinally rigid support beams (23) of fixed length. When flow is allowed to pass through the valve prosthesis device from the inlet to the outlet, the valve assembly is kept in an open position, whereas a reverse flow is prevented as the collapsible slack portions of the valve assembly collapse inwardly providing blockage to the reverse flow.; L'invention concerne une valve prothetique (20) concue pour etre implantee dans les conduits corporels. Cette valve prothetique comprend un stent de support (22) comportant une construction deployable initialement ramassee en une configuration etroite afin d'etre dirigee par catheter, via le conduit corporel, vers un lieu cible et deployee sous l'effet de forces sensiblement radiales exercees depuis l'interieur au moyen d'un dispositif de deployment (48).

de façon à adopter un état déployé dans le lieu cible. Cette valve prothétique comprend également un ensemble valve (28) comprenant un conduit flexible pourvu d'une extrémité d'entrée (24) et d'une extrémité de sortie (26), cet ensemble valve étant constitué d'un matériau souple (29) qui, fixé aux bras de support (23), forme, au niveau de la sortie, des parties du conduit lisses et repliables. Le stent de support est muni d'une pluralité de bras de support (23) longitudinaux rigides de longueur fixe. Lorsque l'écoulement de l'entrée à la sortie est autorisé à travers la valve prothétique, l'ensemble valve est maintenu en position ouverte, tandis qu'un flux inverse est bloqué pendant que les parties lisses et repliables de l'ensemble valve se replient vers l'intérieur, assurant le blocage du flux inverse.

DESIGNATED COUNTRY(S)- AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW; GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG .